DECLARATION FOR UNITED STATES PATENT APPLICATION, POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>ELECTRIC POWER NETWORK</u>, the specification of which

specification of which				
[] is attached hereto. [] was filed in the United States Pat	ent and Trademark Office o	n, and given A	Application Number	
[X] was filed under the Patent Coope PCT/SE2004/002003, the United			ation No.	
I hereby state that I have reincluding the claims, as amended by an			entified specification,	
I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a).				
I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) of §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.				
Prior Foreign Application Number Country Foreign Filing Date Priority Claimed				
0303574-8	Sweden	23 December 2003	Yes	
I HEREBY CLAIM the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.				

U.S. Provisional Application Number	Filing Date
C.O. I TOVISIONAL PAPPHEARION TVAINOON	1 11115 Dave

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

U.S. Patent Application No.	PCT Patent Application No.	Patent Filing Date	Parent Patent No.

I hereby appoint the registered attorneys and agents of VENABLE LLP associated with the following customer number to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

26694

U.S. PATENT AND TRADEMARK OFFICE

VENABLE LLP is located at 575 7th Street, NW, Washington, DC 20004-1601, <u>Telephone</u>: (202) 344-4000, <u>Telefax</u>: (202) 344-8300. <u>Address all correspondence to VENABLE LLP</u>, Post Office Box 34385, Washington, D.C. 20043-9998.

The undersigned hereby authorizes the U.S. attorneys named herein to accept and follow instructions from the undersigned's assignee, if any, and/or, if the undersigned is not a resident of the United States, the undersigned's domestic attorney, patent attorney or patent agent, as to any action to be taken in the Patent and Trademark Office regarding this application without direct communication between the U.S. attorneys and the undersigned. In the event of a change in the person(s) from whom instructions may be taken, the U.S. attorneys named herein will be so notified by the undersigned.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature: Haus C. Cles	Date: 2/4 _ 2007
First/Joint Inventor: Hans Christian CHRISTENSEN	-
Citizenship: Denmark	
Residence and Post Office Address: Sportmagervej 2, DK-2400 COPE	NHAGEN, Denmark
Fordresgaardvej 25	
Signature:	_ Date:
First/Joint Inventor: Lars GERTMAR	
Citizenship: Sweden	
Residence and Post Office Address: Humlegatan 6, S-SE-722 26 VÄST	ERÅS, Sweden
8	Data
Signature:	Date:
First/Joint Inventor: Sture LINDAHL	
Citizenship: Sweden	LIMD Sweden
Residence and Post Office Address: Gässlingavägen 5B, S-SE-227 35 L	OND, Sweden
Signature:	Date:
First/Joint Inventor: Juhani MANTERE	
Citizenship: Finland	
Residence and Post Office Address: Nurmitie 3, FIN-SF-04300 TUUSU	JLA, Finland
Signature: Erik KOLDBY NIELSEN	28/2 - 2007
Signature:	_ Date:
First Joint Inventor: Erik KOLDBY NIELSEN	
Citizenship: Denmark	DENCE Danmark
Residence and Post Office Address: Dyrupgaardvaenget 6, DK-5250 Ol	DENSE, Dejuliark
Signature: Lesf- Cit Maace	
First/Joint Inventor: Leif-Erik WRAAE	
Citizenship: Denmark	
Residence and Post Office Address: Prosselvaenget 17, DK-5690 TOM	IMERUP, Denmark

Attorney Docket: 43315-232755

DECLARATION FOR UNITED STATES PATENT APPLICATION, POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>ELECTRIC POWER NETWORK</u>, the specification of which

	is attached hereto. was filed in the United States Patent and Trademark Office on, and given Application Number
[X]	was filed under the Patent Cooperation Treaty on <u>22 December 2004</u> , and given Application No. <u>PCT/SE2004/002003</u> , the United States of America having been designated.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56(a).

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) of §365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed
0303574-8	Sweden	23 December 2003	Yes

I HEREBY CLAIM the benefit under Title 35, United States Code §119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or §365(c) of any PCT International application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT International filing date of this application.

U.S. Patent Application No.	PCT Patent Application No.	Patent Filing Date	Parent Patent No.

I hereby appoint the registered attorneys and agents of VENABLE LLP associated with the following customer number to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

26694

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I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under §1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Signature:	Date:
First/Joint Inventor: Hans Christian CHRISTENSEN	
Citizenship: Denmark	
Residence and Post Office Address: Sporemagervej 2, DK-240	0 COPENHAGEN, Denmark
Signature: pars Ger Fran	100 - 15 18
First/Joint Inventor: Lars GERTMAR	
Citizenship: Sweden	
Residence and Post Office Address: Humlegatan 6, S-SE-722	26 VÄSTERÅS, Sweden
czhoua di lalli	2602.02-07
Signature: Shure and all	Date: <u>2007-03-2</u> 7
First/Joint Inventor: Sture LINDAHL	
Citizenship: Sweden	
Residence and Post Office Address: Gässlingavägen 5B, S-SE	-227 35 LUND, Sweden
	_
Signature:	Date:
First/Joint Inventor: Juhani MANTERE	
Citizenship: Finland	
Residence and Post Office Address: Nurmitie 3, FIN-SF-0430	0 TUUSULA, Finland
	. .
Signature:	Date:
First/Joint Inventor: Erik KOLDBY NIELSEN	
Citizenship: Denmark	
Residence and Post Office Address: Dyrupgaardvaenget 6, DK	C-5250 ODENSE, Denmark
Si-mature.	Date:
Signature:	Date
Citizenship: Denmark	COO TOMMEDI ID Donmark
Residence and Post Office Address: Krosselvaenget 17, DK-5	OYU I UNIMEKUP, Deninark

Attorney Docket: 43315-232755

DECLARATION FOR UNITED STATES PATENT APPLICATION, POWER OF ATTORNEY, DESIGNATION OF CORRESPONDENCE ADDRESS

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name, and that I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled <u>ELECTRIC POWER NETWORK</u>, the specification of which

-	· · · · · · · · · · · · · · · · · · ·
[] is atta	ched hereto.
[]wasfi	led in the United States Patent and Trademark Office on, and given Application Number
	led under the Patent Cooperation Treaty on 22 <u>December 2004</u> , and given Application No. <u>SE2004/002003</u> , the United States of America having been designated.
	hereby state that I have reviewed and understand the contents of the above-identified specification, he claims, as amended by any amendment referred to above.
	acknowledge the duty to disclose to the Patent and Trademark Office all information known to me to be patentability as defined in Title 37, Code of Federal Regulations, §1.56(a).
	HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) of §365(b) eign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application

of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

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U.S. Provisional Application Number	Filing Date

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U.S. Patent Application No.	PCT Patent Application No.	Patent Filing Date	Parent Patent No.

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Signature:	Date,		
First/Joint Inventor: Hans Christian CHRISTENSEN			
Citizenship: Denmark			
Residence and Post Office Address: Sporemagervej 2, DK-2400 COPENHAGEN, Denmark			
Signature:	Date:		
Signature:			
Citizenship: Sweden			
Residence and Post Office Address: Humlegatan 6, S-SE-	722 26 VÄSTERÅS, Sweden		
Residence and 1 to Cities Produces. Hannegamin 9, 5-52-7	722 20 V 210 1210 15, 5 WOOD		
Signature:	Date:		
Signature:			
Citizenship: Sweden			
Residence and Post Office Address: Gässlingavägen 5B, S	S-SE-227 35 LUND, Sweden		
Signature:	Date: 2007-03-26		
First/Joint Inventor: Juhani MANTERE			
Citizenship: Finland			
Residence and Post Office Address: Nurmitie 3, FIN-SF-0	4300 TUUSULA, Finland		
Signature	Date:		
Signature:			
Citizenship: Denmark			
Residence and Post Office Address: Dyrupgaardvaenget 6	DK-5250 ODENSE, Denmark		
Residence and Post Office Andress. Dyrupgame vacunger o	, DEC-3230 ODERIGE, Dominica		
Signature:	Date:		
First/Joint Inventor: Leif-Erik WRAAE			
Citizenship: Denmark			

Residence and Post Office Address: Krosselvaenget 17, DK-5690 TOMMERUP, Denmark

Attorney Docket: 43315-232755

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Hans Christian CHRISTENSEN, Sporemagervej 2, DK-2400 COPENHAGEN, Denmark; Lars GERTMAR, Humlegatan 6, S-SE-722 26 VÄSTERÅS, Sweden; Sture LINDAHL, Gässlingavägen 5B, S-SE-227 35 LUND, Sweden; Juhani MANTERE, Nurmitie 3, FIN-SF-04300 TUUSULA, Finland; Erik KOLDBY NIELSEN, Dyrupgaardvaenget 6, DK-5250 ODENSE, Denmark; and Leif-Erik WRAAE, Krosselvaenget 17, DK-5690 TOMMERUP, Denmark, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to ELECTRIC POWER NETWORK for which said assignor has caused an application for United States Letter Patent to be prepared,

mprovements relating to	ELECTRIC POWER NETWORK for which said assignor has caused an application
for United States Letter Pa	atent to be prepared,
the inventor's declara	tion for said application being executed concurrently with the execution of this
l said application to be	filed in the United States Patent and Trademark Office;
] said Non-Provisional	application having been filed in the United States Patent and Trademark Office on en Application Number;
[X] said application having	g been filed under the Patent Cooperation Treaty on 22 December 2004, and given /SE2004/002003, the United States of America having been designated.
AND WHEREAS	ABB RESEARCH LTD.
	Affolternstrasse 52
	CH-8050 Zürich
	Switzerland
application, including any	the assignees is desirous of acquiring the entire right, title and interest in and to said divisions and continuations thereof, and in and to said invention and any patents refor, including any renewals, reissues and prolongations thereof;
NOW THIS WITNESSE	TH, that for and in consideration of One Dollar (\$1.00), and other good and valuable assignee to said assignor, the receipt of which is hereby acknowledged, said assignor
hereby assigns, sells and t	transfers to said assignee, and said assignee's successors and assigns, the entire and interest in and to said invention and to said application, including any divisions and
continuations thereof, and prolongations thereof; sai	I in any patents which may be granted therefor, including any renewals, reissues and dassignee, and said assignee's successors and assigns, to have, hold, exercise and additional and said assignee's and applications and continuous thereof and any patents

prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, t	his incs day of April, 2, 2006
Signature:	Haus C. Clas
Name:	Hans Christian CHRISTENSEN
Address:	Sporemagervej-2, DK-2400 COPENHAGEN, Denmark
	Fordresgaard Vej 25
EXECUTED, t	his, 2006
Signature:	
Name:	Lars GERTMAR
Address:	Humlegatan 6. S-SE-722 26 VÄSTERÅS, Sweden

Attorney Docket: <u>43315-232755</u> <u>9574US/JS/FB</u>

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS Hans Christian CHRISTENSEN, Sporemagervej 2, DK-2400 COPENHAGEN, Denmark; Lars GERTMAR, Humlegatan 6, S-SE-722 26 VÄSTERÅS, Sweden; Sture LINDAHL, Gässlingavägen 5B, S-SE-227 35 LUND, Sweden; Juhani MANTERE, Nurmitie 3, FIN-SF-04300 TUUSULA, Finland; Erik KOLDBY NIELSEN, Dyrupgaardvaenget 6, DK-5250 ODENSE, Denmark; and Leif-Erik WRAAE, Krosselvaenget 17, DK-5690 TOMMERUP, Denmark, hereinafter (collectively) referred to as the assignor, has invented certain improvements relating to <u>ELECTRIC POWER NETWORK</u> for which said assignor has caused an application for United States Letter Patent to be prepared,

for United States Letter Patent to be prepared,
[] the inventor's declaration for said application being executed concurrently with the execution of this instrument;
 [] said application to be filed in the United States Patent and Trademark Office; [] said Non-Provisional application having been filed in the United States Patent and Trademark Office on
AND WHEREAS ABB RESEARCH LTD. Affolternstrasse 52 CH-8050 Zürich Switzerland
hereinafter referred to as the assignees is desirous of acquiring the entire right, title and interest in and to said application, including any divisions and continuations thereof, and in and to said invention and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof;
NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assigner, the receipt of which is hereby acknowledged, said assigner hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the entire and exclusive right, title and interest in and to said invention and to said application, including any divisions and continuations thereof, and in any patents which may be granted therefor, including any renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said invention and said application, including any divisions and continuations thereof, and any patents which may be granted therefor, including any renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any such patents when granted, including any renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.
AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any acts relating to the obtaining or to the asserting of said patents, including any renewals, reissues and prolongations thereof.
AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.
EXECUTED, this day of, 2006
Signature: Name: Hans Christian CHRISTENSEN Address: Sporemagervej 2, DK-2400 COPENHAGEN, Denmark
EXECUTED this 18 day of May 2007

Humlegatan 6, S-SE-722 26 VÄSTERÅS, Sweden

Signature: Name:

Address:

Lars GERTMAR

EXECUTED, this	27thday of March	_, 2006
Signature: Name: Address:	Sture LINDAHL Gässlingavägen 5B, S-SE-227	•
EXECUTED, this	day of	_, 2006
Signature:		
	Juhani MANTERE	
Address:	Nurmitie 3, FIN-SF-04300 TU	JUSULA, Finland
EXECUTED, this	day of	, 2006
Signature:		
Name:	Erik KOLDBY NIELSEN	
Address:	Dyrupgaardvaenget 6, DK-52	50 ODENSE, Denmark
EXECUTED, this	s day of	_, 2006
Signature:		
Name:	Leif-Erik WRAAE	
Address:	Krosselvaenget 17 DK-5690	TOMMERUP Denmark

EXECUTED, this	3 day of, 2006
Signature:	
	Sture LINDAHL
Address:	Gässlingavägen 5B, S-SE-227 35 LUND, Sweden
EXECUTED, this	Juhani MANTERE Juhani MANTERE
·	1.1. Mandage
Signature:	Musice value 100
Name:	Juhani MANTERE
Address:	Nurmitie 3, FIN-SF-04300 TUUSULA, Finland
EXECUTED, this	s day of, 2006
Signature:	
	Erik KOLDBY NIELSEN
	Dyrupgaardvaenget 6, DK-5250 ODENSE, Denmark
EXECUTED, thi	s, 2006
Signature:	
•	Leif-Erik WRAAE
	Krosselvaenget 17. DK-5690 TOMMERUP, Denmark

EXECUTED, thi	s, 2006
Signature:	
Name:	Sture LINDAHL
Address:	Gässlingavägen 5B, S-SE-227 35 LUND, Sweden
EXECUTED, thi	s, 2006
Signature:	
Name:	Juhani MANTERE
Address:	Nurmitie 3, FIN-SF-04300 TUUSULA, Finland
EXECUTED, thi	s Wedge day of March, 28, 2006 Eith Woldhy Erik KOLDBY NIELSEN
Signature:	Eul Holdby
Name:	Erik KOLDBY NIELSEN U
Address:	Dyrupgaardvaenget 6, DK-5250 ODENSE, Denmark
EXECUTED, thi	is Www.day of March 28, 2006
Signature:	s Wedday of March 28, 2006
	Leif-Erik WRAAE
Address:	Prosselvaenget 17, DK-5690 TOMMERUP, Denmark